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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/625,249	07/23/2003	David Kingsolver	1327-001	9300

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EXAMINER

RAMOS FELICIANO, ELISEO

ART UNIT PAPER NUMBER

2687

DATE MAILED: 07/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/625,249	KINGSOLVER ET AL.	
	Examiner	Art Unit	
	Eliseo Ramos-Feliciano	2687	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 July 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>OCT/27/2003</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Information Disclosure Statement

1. The references listed in the Information Disclosure Statement filed on October 27, 2003 have been considered by the examiner (see attached PTO-1449 or PTO/SB/08A and 08B forms).

Drawings

2. The drawings are objected to because they include rectangular boxes without appropriate legends. For example, elements 60, 70, 90, 120, etc. need appropriate legends. Empty or not labeled rectangular boxes in a circuit are not descriptive, and therefore incomplete. See 37 CFR 1.83(a) and 1.84(o).
3. The drawings are objected to because they are informal. Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

4. **Claim 8** is objected to because of the following informalities: "as defined in 1" should be --as defined in claim 1--. Appropriate correction is required.
5. **Claims 4 and 14** are objected to because of the following informalities: they recite the limitation "DCS, CTCSS, DTMF" in line 2. Not the claims nor the specification define the acronyms. Applicant needs to explain the acronyms and amend at least one of the claims and the specification to reflect a clear definition of the acronyms. For example, --DTMF (Dual-Tone Multi-Frequency)-- if that is the case. Appropriate correction is required.
6. **Claims 6 and 15** are objected to because of the following informalities: they recite the limitation "LTR, MPT-1327, EDACS" in line 2. Not the claims nor the specification define the acronyms. Applicant needs to explain the acronyms and amend at least one of the claims and the specification to reflect a clear definition of the acronyms. See example above. Appropriate correction is required.

Claim Rejections - 35 USC § 112

7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
8. **Claim 18** is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 18 recites the limitation "A method as defined in Claim 9" in line 1. There is insufficient antecedent basis for this limitation in the claim. Claim 9 is a system not a method. For examination on the merits the claim will be treated as dependent from claim 11.

Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

10. **Claims 11-13, and 16-18** are rejected under 35 U.S.C. 102(b) as being anticipated by Boyle et al. (US Patent Number 6,138,158).

Regarding **claim 11**, Boyle et al. discloses a method for conducting two-way radio communication (Figures 1-4), said method comprising:

(a) transmitting a signal code (character set / key sequence / web address) and two-way radio communication from a first two-way radio (client / mobile phone – 106) to a base/repeater station (102, 108);

(b) decoding said signal code and correlating said decoded signal code to one or more internet addresses (URL / web address / IP address – column 8, line 37; column 9, line 49 to column 10, line 17; Figure 5);

(c) establishing a computer network link (see links in Figures 1-4; for example 114) between said base/repeater station and a target station (server – 112, 110; column 5, lines 4-23) through said internet address;

(d) exchanging real time voice and/or data communications over said computer network link (for example, data: HDTP/HTTP request – column 6, line 30 to column 7, line 39);

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(e) transmitting said real time voice and/or data communications from said target station to a second two-way radio (for example, data: HTTP response – column 6, line 30 to column 7, line 39). See column 4, line 58 to column 7, line 51.

Regarding **claim 12**, Boyle et al. discloses everything claimed as applied above (see *claim 11*). In addition, Boyle et al. discloses wherein said signal code is selected on a keypad device (column 6, lines 45-48).

Regarding **claim 13**, Boyle et al. discloses everything claimed as applied above (see *claim 11*). In addition, Boyle et al. discloses wherein said signal code is selected on a channel selector device (HDML hierarchical pages – column 7, lines 15-20; column 9, line 60 to column 10, line 17).

Regarding **claims 16-17**, Boyle et al. discloses everything claimed as applied above (see *claim 11*). In addition, Boyle et al. discloses wherein said signal code is correlated to one or more internet addresses associated with a target station by a radio controller using a computer based relational data base and a suitable decoder (column 9, line 49 to column 10, line 17; Figure 5). The Internet address is an IP address (column 8, line 37).

Regarding **claim 18**, Boyle et al. discloses everything claimed as applied above (see *claim 11*; in view of 35 USC § 112, second paragraph, rejection above). In addition, Boyle et al. discloses wherein said bi-directional computer network link with one or more target base/repeater stations is established by a voice communication system selected from the group consisting of trunked, conventional radio system or a combination thereof. (For example, the link includes at least a conventional radio system as depicted in 120 – Figure 1: CDMA, GSM, TDMA, etc.)

Claim Rejections - 35 USC § 103

11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

12. **Claims 1-3, 5, and 7-10** are rejected under 35 U.S.C. 103(a) as being unpatentable over Boyle et al. (US Patent Number 6,138,158).

Regarding **claim 1**, it is corresponding obvious variation claim of *claim 11*; therefore, same reasons shown above are incorporated herein. For clarification, Boyle et al. discloses a system for two-way radio communication (Figures 1-4) comprising:

(a) a first two-way radio (client / mobile phone – 106) comprising: (i) a means for exchanging a two-way radio communication (transceiver of the device – column 5, lines 4-10) with a base/repeater station (102, 108); and (ii) a means for selecting (keypad) and transmitting (transceiver; e.g. 336) a signal code to said base/repeater station;

(b) a base/repeater station (102, 108) comprising: (i) a base/repeater station decoder for decoding the signal code from said first two-way radio into a signal that can be recognized by a base/repeater station controller and transferring said signal to said base/repeater station controller; and (ii) wherein said base/repeater station controller comprises a means for receiving said decoded signal from said base/repeater station decoder and correlating said decoded signal to one or more internet addresses associated with one or more target base/repeater stations and a means for establishing a bi-directional computer network link with said at least one target station for real time voice and/or data communications;

(c) at least one target station (server – 112, 110; column 5, lines 4-23) comprising: (i) a target station controller a means for establishing a bi-directional computer network link with said base/repeater station for real time voice and/or data communications from said base/repeater station controller and comprising a means for transferring a signal comprising said real time voice and/or data communications to a target station encoder; and (ii) wherein said target station encoder receives said real time voice and/or data communications from said target station controller and encodes said signal into a signal code that can be recognized by a second two-way radio; and

(d) at least one second two-way radio (304, 306) comprising a means for exchanging two-way radio communications with a target station and means for receiving said signal code from said target station encoder (Figure 3: 302 is the first two-way radio depicted as 106 in Figure 1; column 5, lines 10-12; 304 and 306 are the at least one second two-way radio; column 8, lines 16-20; all of the communicate via airmet 102 depicted in Figures 1-3).

Regarding **claim 2**, Boyle et al. discloses everything claimed as applied above (see *claim 1*). In addition, Boyle et al. discloses wherein said signal code is selected on a keypad device (column 6, lines 45-48).

Regarding **claim 3**, Boyle et al. discloses everything claimed as applied above (see *claim 1*). In addition, Boyle et al. discloses wherein said signal code is selected on a channel selector device (HDML hierarchical pages – column 7, lines 15-20; column 9, line 60 to column 10, line 17).

Regarding **claim 5**, Boyle et al. discloses everything claimed as applied above (see *claim 1*). In addition, Boyle et al. discloses wherein said signaling method comprises a modulated RF carrier (Figure 1: CDMA, GSM, TDMA, etc.)

Regarding **claims 7-8**, Boyle et al. discloses everything claimed as applied above (see *claim 1*). In addition, Boyle et al. discloses wherein said base/repeater station means for correlating the signal to one or more internet addresses associated with a target station is a computer based radio controller comprising a relational data base (118/114) (column 9, line 49 to column 10, line 17; Figure 5). The Internet address is an IP address (column 8, line 37).

Regarding **claim 9**, Boyle et al. discloses everything claimed as applied above (see *claim 1*). In addition, Boyle et al. discloses wherein said bi-directional computer network link with one or more target base/repeater stations is established by a voice communication system selected from the group consisting of trunked, conventional radio system or a combination thereof. (For example, the link includes at least a conventional radio system as depicted in 120 – Figure 1: CDMA, GSM, TDMA, etc.)

Regarding **claim 10**, Boyle et al. discloses everything claimed as applied above (see *claim 1*). In addition, Boyle et al. discloses wherein said at least one secondary two-way radio is further comprised of a means for transmitting a signal code (all features described for 302/106 are applicable to 304/306 as well; Figure 3: 302 is the first two-way radio depicted as 106 in Figure 1; column 5, lines 10-12; 304 and 306 are the at least one second two-way radio; column 8, lines 16-20; all of the communicate via airmet 102 depicted in Figures 1-3).

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13. **Claims 4, 6, and 14-15** are rejected under 35 U.S.C. 103(a) as being unpatentable over Boyle et al. (US Patent Number 6,138,158) in view of the Admitted Prior Art (disclosed on page 2, second full paragraph and page 6, second full paragraph of the present specification).

Regarding **claims 4, 6, and 14-15**, Boyle et al. discloses everything claimed as applied above (see *claims 1 and 11*). However, Boyle et al. fails to specifically disclose DCS, CTCSS, DTMF, or any combination thereof, nor LTR, MPT-1327, EDACS, or any combination thereof as claimed.

However, these conventional methods/protocols are particular requirements of particular systems as shown by the prior art admitted by applicant on page 2, second full paragraph and page 6, second full paragraph of the present specification ("Admitted Prior Art"). Use of any of these conventional methods/protocols is obvious expedient as an engineering design choice.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use DCS, CTCSS, or DTMF, and/or LTR, MPT-1327, or EDACS, as claimed for the selection of any of these conventional methods/protocols is an engineering design choice as particular requirements of particular systems.

Citation of Pertinent Prior Art

14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Greer et al. (US Patent Number 6,247,048); **Liao et al.** (US Patent Number 6,263,437); and **Wu** (US Patent Number 6,275,575).

Conclusion

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15. Any inquiry concerning this communication from the examiner should be directed to Eliseo Ramos-Feliciano whose telephone number is 571-272-7925. The examiner can normally be reached from 8:00 a.m. to 5:30 p.m. on 5-4/9 1st Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester G. Kincaid, can be reached on (571) 272-7922. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

 6/27/05
ELISEO RAMOS-FELICIANO
PATENT EXAMINER

ERF/erf
June 27, 2005